

SUNDERLAND

MESSRS. J. L. THOMPSON & SONS LD. YARD Nº 583. PROFILE



ALD Nº 594/5/6/7/9

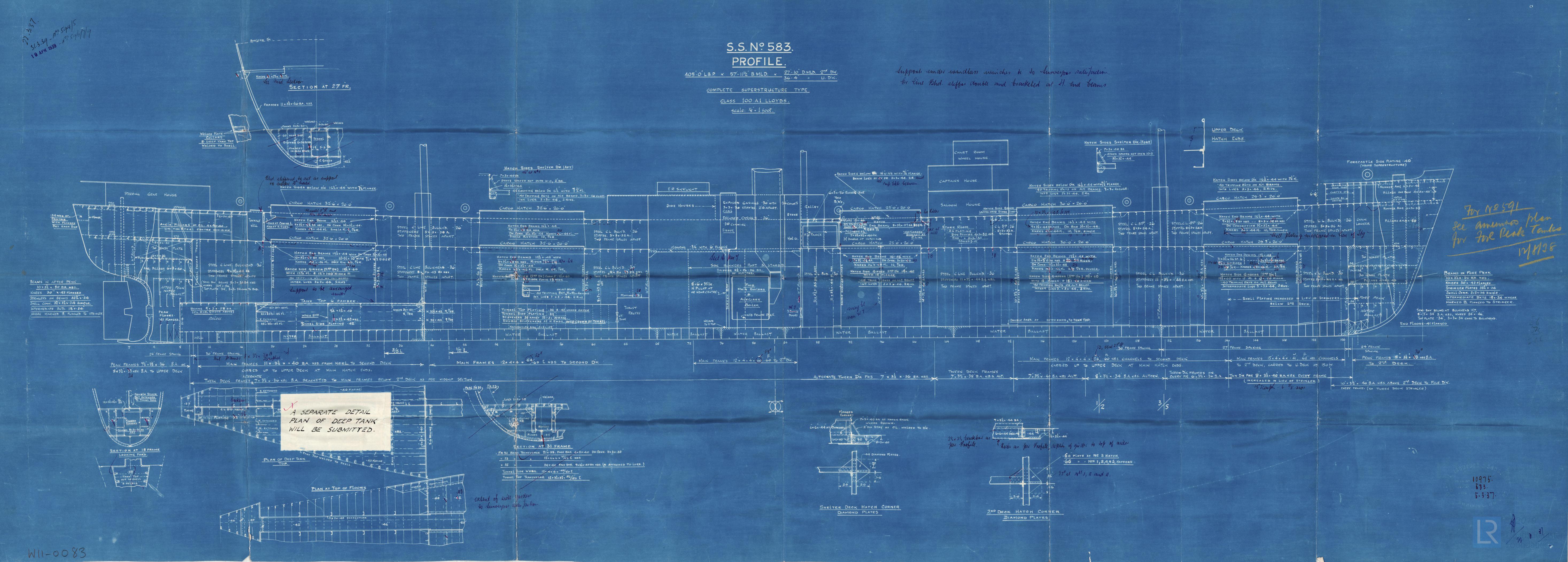
Royal Doeptre: 32270.

Bretwalda BUNDERLAND RPT. NO. 32601. W.S 18

"Dhieldrage um" 32912.

W11-0083

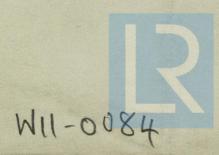
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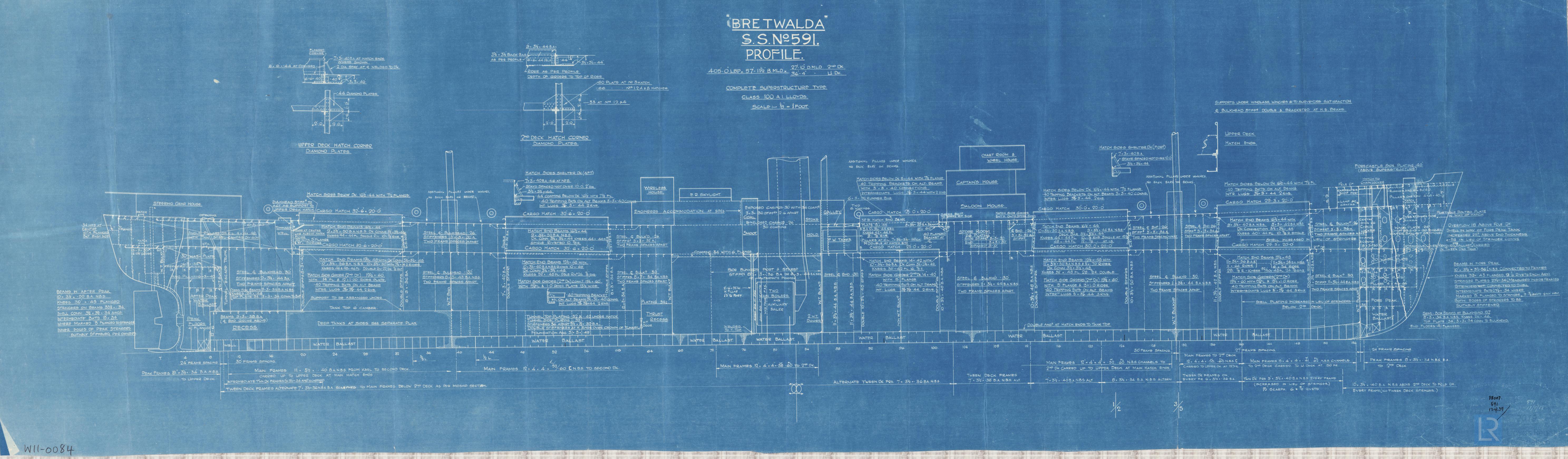
Bretwalda "
J. L. Trompson Sons 591.

Profile (dis Duilt)

BUNDERLAND BPT. No. 32601



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FOR 85 ARGYLL

BUNDERLAND.

MESSRS. J.L. THOMPSON & SONS 2 YARD N. 583.

DECKS



ALSO No 591. (Sec's letter 3.9.37).

ALSO Nº 594/5/6/7/9

"Royal Sceptie".
BUNDERLAND RPT. NO. 32270.

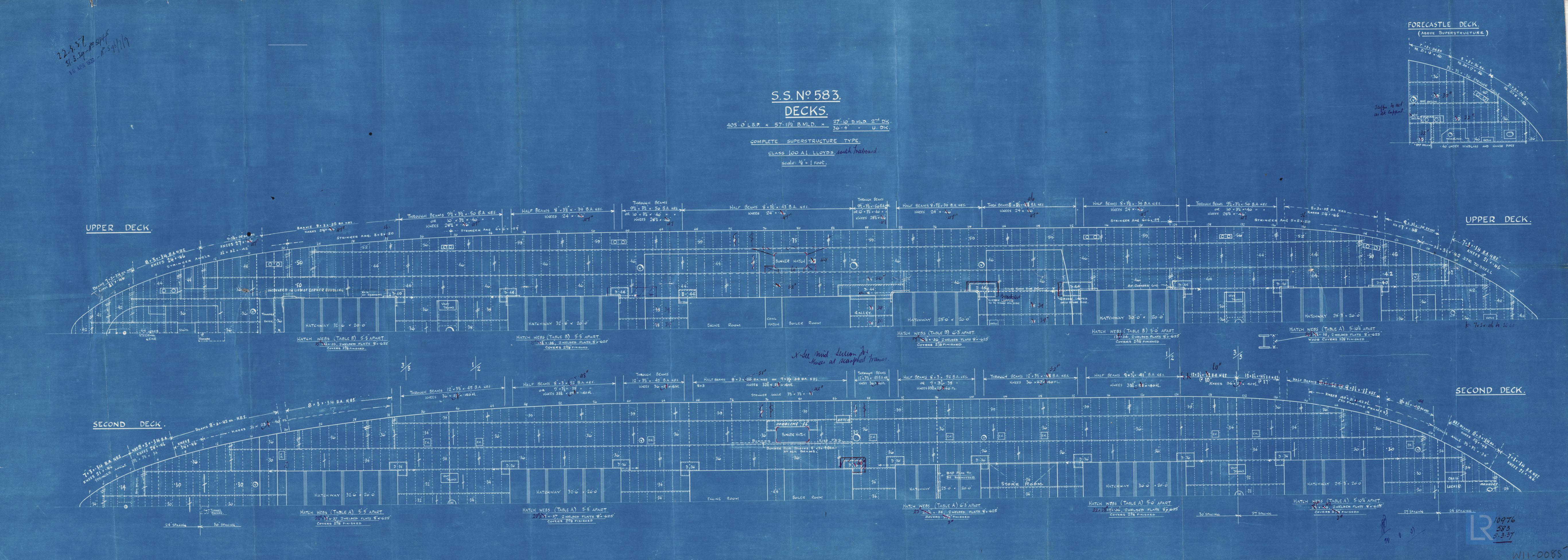
SUNDERLAND POT. NO. 32601. W.S 18

" Shistlygom 32912

M11-0085

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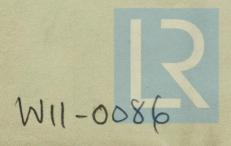


Bretwalda

Decl(s (ds built)

J. L. TRONZPSOR? SORS 591.

SUNDERLAND RET. No. 32601.



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S.S.BRETWALDA".

Nº 591.

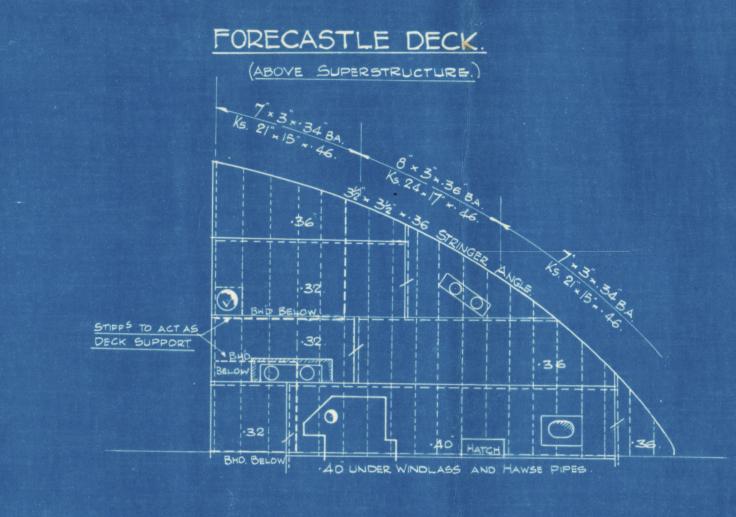
DECKS.

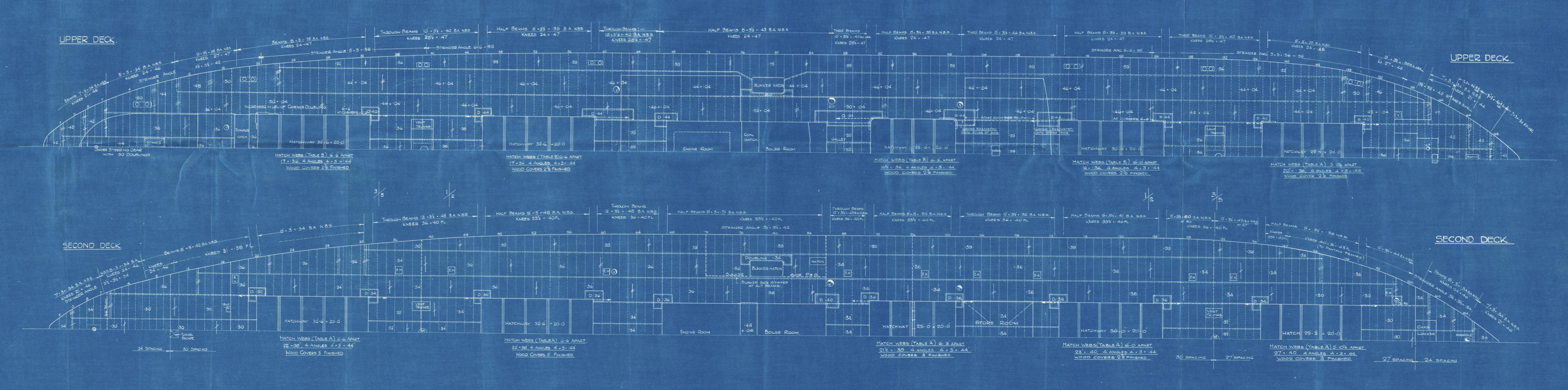
405-0 L.B.P. × 57-11 B. MLD. × 27-10 D.MLD. 240 DK.

COMPLETE SUPERSTRUCTURE TYPE.

CLASS 100 A.I. LLOYDS WITH FREEBOARD,

SCALE : 16 = 1FT





SUNDERLAND.

MESSRS. J. L. THOMPSON & SONS L?
YARD NO 583.

MIDSHIP SECTION.



FLSO Nº 591 (Sec's letter 3939).
ALS Nº 594/5/6/7/9

"Ryal Aceptie".
SUNDERLAND RPT. NO. 32270.

"bretwalda.

BUNDERLAND BAT NO. 32601

Junder 1 32913 . 2019

Lloyd's Register

M11-0081

S. S. Nº 583. NUMERALS. MIDSHIP SECTION. $L \times D = 405 (27.83 + 8.0) = 14511$ L(B+D) = 405 (57.96+35.83) = 37985 PRINCIPAL DIMENSIONS. COMPLETE SUPERSTRUCTURE TYPE. LENGTH B.P. _____ 405'-0" EQUIPMENT NUMERALS BREADTH EXTREME ____ 58'-3" LLOYD'S 100 A1 CLASS. with Inecovard 405 (57.96 + 36.33) 1-15----- 38187 / FORECASTLE 29.87'x 6.5' x . 75 _____ 146 151 BREADTH MOULDED 57-112 SCALE: 1/2 = 1 FOOT. CASING 67.5 × 7.75 × .50 _____ 262 . DEPTH M'L'D. TO 2" DECK_____ 27-10" DECKHOUSE 22.5 × 8.0 × .50 _____ 90 38685 LETTERAT DEPTH M'L'D. TO U. DECK ______ 36 - 4" DEPTH TO LENGTH, UPPER DK .___ 11.15 UPPER DECK . 46 IN WAY OF HATCHES UPPER DECK BET. OPENINGS . 18 to .36 STRINGER 59 x . 59 to 39 x . 42 44 IN WAY OF CASINGS, DOUBLE RIV. END LAPS FOR 12L. to 36 AT ENDS TREBLE RIV. END LAPS FOR L. SINGLE " " AT ENDS. TREBLE TO D'BLE. RIV. END LAPS AT ENDS. DOUBLE RIV. END LAPS FOR 1/2 L. SINGLE " " AT ENDS. Not LOCK. 4 STRINGER ANGLE 6 × 6 × · 59 to 3/2 × 3/2 × · 42 14 CAMBER ro# ALTERNATE BEAMS LUGGED TO C.L.BHD UPPER DECK THROUGH BEAMS 92 x 32 x 50 B.A. N.B.S. OR 10 x 32 x . 40 B.A. N.B.S. 3x3x.26, 2, 3/4 R. 6 RIVS 78 DIA. KNEES 282 x . 46 & 212" LAP STEEL C.L.BHD . 26 PLATING. SHEERSTRAKE 72" x . 68 to . 46, IN 282 KNEES. HALF BEAMS IN WAY OF HATCHES 8 . 32 x 39 B.A. NBS. KNEES 24 x 46, 5, 78R. 17 LAP STIFFENERS TWO FRAME SPACES APART. QUAD. RIVETED END LAPS FOR 1/2L. 1.06 in permanent " " " CASINGS 8 x 3/2 x · 43 " " KNEES! 24 x · 46 5,78 R. 17 LAP UNDER 10-0, 5x3x.32 ANGLES, AND SEE PROFILE. TREBLE AT ENDS. TWEEN DECK FRAMES ALTERNATE, CONNECTIONS 3x3x.36 7 × 32 × · 36 B.A. N.B.S. (AT 8-6 SPANS) 9.0" CASING MAIN FRS CARRIED UP AT HATCH ENDS SECOND DIK. BET. OPENINGS 34 to 30 STERN FRAME CAST STEEL . 2" DECK STRINGER 63" 39 to 152x 34" SECOND DECK . 36 to 30 DOUBLE RIV. END EARS FOR 166. STEM BAR 94 × 22 .. STRAKE BELOW SHEERSTRAKE DOUBLE RIVETED END LAPS ... DOUBLE RIV. END LAPS FOR \$L. SINGLE " AT ENDS. 9x32x.44 BA. 72 x · 60 to · 46, STRINGER ANGLE 32 x 32 x . Al to 34 RUDDER AS PER SEPARATE PLAN. / SINGLE " " AT ENDS. TREBLE RIVETED END LAPS. drainage anyt. to WELDED PLATE COLLAR IT EACH FRAME ALTERNATE BEAMS LUGGED TO C.L. BHE THROUGH BEAMS SECOND DECK THROUGH BEAMS 12 x 32 x . 45 B.A. N.B.S. 3×3×30 WITH 3, 3/4 R (NEES 36 x . 40 FL. 27 LAP. HALF BEAMS IN WAY OF HATCHES 8 x 3 x 52 B.A. N.B.S. OR 9 . 32 x . 38 B.A 8 RIVETS 18 DIA IN blam and as ker " " " CASINGS 8 x 3 x (56) B.A. NBS. OR 9 x 3 2 x · 38 B.A. HALF BEAM KNEES 332x 40FL 25LAP STEEL C.L. BULKHEAD . 30" 8 PIVS. 7/8 DIA . STIFFENERS TWO FRAME , SPACES (60") KNEES AT 15 E FRAMES 40 × 31 LAP x . 12 FL.

9 RIVS, 7/8 DIA Min blam APART 11 x 3/2 x . 44 B.A. NBS. FOR STIFFE'S AFT OF MACHY SPACE SEE PROFILE. KHEES AT II FRAMES IN AFTER HOLD XX . NOFL., 23 LAP. DOUBLE STIFFENERS AT HATCH ENDS. 7 RIVETS 7/8" DIA. to blam DECK CONN. 3 x 3 x . 40, TANK TOP CONN. 3 x 3 x . 40 BRACKETS TOP & BOTTOM AT HATCH ENDS. d = (682-432") + 24.52" = 25.6" d FOR FRAMES - 23" for excen knees. (RULE SPACING, 31) MAIN FRAMES 12 × 4 × 4 × 54 : 60 HBS CHANNELS @ 30 SPACING, 27 FORD. 3/5L 12 × 4 × 4 × 60, 60 " " IN B. ROOM & PERMANENT BUNKERS. SIDE SHELL . 58 15 × 4 × 4 × .41, .62 " " FOR 10% AFT RULE POS. OF COLL. BULK D. WITH 30" SPACING TO . 46 AT ENDS, AFT PEAK FRAMES 75 x 35 x 36 B.A. OR 8 x 35 x 13 B.A. N.S. 24 APART. (F. PEAK SEE PROFILE.) TREBLE RIVETED END LAPS. RIVETING SIDE FRAMES TO SHELL 62 dias. APART AT 30" SPACING. " " " " " " " " " 27 " SHELL 25% ABOVE END " " FOR 10% AFT RULE POS. OF COLL. BULK'D. THICKNESS = . 58 IN WAY OF " " " " 5½ " " IN PEAK TANKS. and dep tanks. PANTING FOR A DISTANCE AFT OF RULE POSITION OF COLLISION BULKHEAD EQUAL TO 10% LENGTH OF VESSEL. FLOORS EVERY FRAME UNDER ENGINES, BOILER BEARERS AND FORWARD OF 3/5 L. ELSEWHERE EVERY 3rd FRAME, WITH INTERMEDIATE BRACKET BOSS PLATING . 68" FLOORS. PARTIAL FLOORS UNDER THRUST BLOCK. FLOORS - 39, 498.5. WITH STIFFENERS 3 . 3 . 39, 4985. TANK TOP CENTRE STRAKE 60"x 50 to 42", 57 8.5 TREBLE RIV. END LAPS FOR 12L. DOUBLE AT ENDS.

TANK TOP PLATING . 42 to 38, 50 E.R. 36 8.5. Double RIVETED END, LAPS FOR 12L. SINGLE AT ENDS. 6x2 CARGO BATTENS SPACED 9 APART. WATERTICHT FLOORS . 49 . 49 B.S. WITH STIFF'RS. 5 . 3 X . 36 SPACED 30 APART. FRAMES 32 x 32 x . 43 REVERSE FRAMES 3 x 3 x · 43, 5 x 5 x · 43 UNDER ENGINE BOILER BEARERS & THRUST. SKETCH OF TANK GUSSET INTERCOSTAL GIRDERS, | EACH SIDE . 37 . 41 E.R. 51 B.S. GIRDER VERTICALS 3 . 3 . 39 . 49 85. B.O.T. FLANGED 32 1 " CONNS. TO SHELL 32 x 3 x . 43, MARGIN PLATE 39 x . 53 . 59 B.S. TREBLE RIVETED END LAPS, \$ 5 x 5 x 43 UNDER ENGINES & THRUST ! " " T.Top 3 × 3 × · 43, CENTRE GIRDER 422 ABOVE KEEL x .53 to .45 .61 B S. " ANGLE 32 x 32 x . 53 END LAPS TREBLE RIVETED. " " " " IN B.S. 3½ × 3½ × · 53 B.O.T'S. 432 x · 44 FL. · 54 BR GUSSET - 40 WITH 2 FLANGE TOP BARS 32 x 32 x 47 to 43 57 8.5. B.O.T. CONNS. 5 x 5 x · 43, 11 RIVS. 78 & WELDED GUSSETS 102 BOTTOM BARS 4 × 4 × . 53 to . 49. FLOORS & INTERM. FLOORS TO MARGIN 5" 3 x . 43", 6 x 6 x . 43 IN PANTING AREA. VERTICALS 32 x 3 x . 43 32 x 32 x . 53 IN B.S. B.O.T. CONNS. TO MARGIN IN PANTING AREA 6x6x 43", 15 RIVS. 78" & WELDED GUSSETS 16" " 5 x 5 = 43 UNDER ENGINES & THRUST BLOCK, " 5 . 5 . 53 " BOILER BEARERS. V 11 x 22 CEILING UNDER HATCHES EXTENDING 2'0 ALL ROUND AND OVER BILGES. DOUBLE LUGS FOR 2 SPACES AT PANTING FRAMES. BRIVS 3/4 TO FLOORS. 0 10 0 9 0 9 RIVETS 34" TO FLOORS, 1/8 " CENTRE GIRDER FOR \$L. BOTTOM SHELL . 58" WITH 30 SPACING TO 49 AT ENDS. TREBLE RIVETED END LAPS. KEEL 512" x . 77" FOR 35 L TO . 67" AT ENDS. V BOTTOM FRAMES FROM LL. FORWARD TO COLLISION RIVETS IN BOTTOM FRAMES TO SHELL AND FLOORS SPACED 7 dias. QUAD. RIVETED END LAPS FOR 1/2 L. V BULKHEAD 5 x 5 x . 43 ON SOLID FLOORS. TREBLE " " AT ENDS WHERE . 76 AND UNDER . 32 x 3 x · 43 BACK BARS ON SKELETON FLOORS I RIVETS IN END LAPS ABOVE . 72", 78 AT ENDS. BETWEEN FLANGES OF BRACKETS AND VERTICALS. THREE STRAKES NEXT TO KEEL TO BE 10% ABOVE MIDSHIP THICKNESS 1/8 RIVETS IN SEAMS AND FRAMES. RIVETS TO SHELL AND FLOORS 5/2 DIAS. APART. FROM 12 L FORWARD TO RULE POSITION OF COLLISION BULKHEAD. @ 30 SPACING. 52 × 3 × 34 B.A. 44 B.S.7 6,3/4R 6 3/4R7 4,3/4R. 10000 AIR HOLE 2,3/4R. 4-1 @ 30 SPACING 6×32× 34 B.A. 44 B.S.7 4, 3/4R. (6,3/4R V 10974. 5-3-37.

"Bretwalda:

J. h. Thompson 9 Sons 591

Midship Section (26 built)

BUNDERLAND RET. NO. 32601



"BRETWALDA." S. S. Nº 591. NUMERALS. L × D = 405 (27.83 + 8.0) = 14511. MIDSHIP SECTION. L(B+D) = 405 (57.96 + 35.83) = 37985 PRINCIPAL DIMENSIONS COMPLETE SUPERSTRUCTURE TYPE 405-0" LENGTH B.P. EQUIPMENT NUMERALS. 58-3 BREADTH EXTREME LLOYDS 100A.I. CLASS. WITH FREEBOARD. FORECASTLE 29.87 . 6.75 . . 75 ----- 151. CASING 67.5 × 7.75 × .50 _____ 262 57-112 BREADTH MOULDED. SCALE - 12 = 1FOOT DECKHOUSE 25.0 × 8.0 × .50 _____100. DEPTH M'LD TO 2ND DECK. 27-10 38,700. LETTER of DEPTH M'L'D. TO U. DECK. 36-4 OWNERS' EXTRAS HAVE BEEN ADDED TO SCANTLINGS. FORE & AFT SHELTER DK PLATING OUTSIDE OF HATCHES DEPTH TO LENGTH, UPPER DK. 11.15 MCREASED BY . 04 ABOVE PULE THICKNESS. UPPER DECK BET, OPENINGS . 39 TO . 36. UPPER DECK 50 IN WAY OF HATCHES DOUBLE RIV END LAPS FOR 1/2 L .48 IN WAY OF CASINGS STRINGER 59 x . 59 TO 39 x . 42 TO - 40 AT ENDS. TREBLE RIV END LAPS FOR 1/2 L. DOUBLE RIV END LAPS FOR 12L TREBLE TO DBLE RIV. END LAPS AT ENDS. STRINGER ANGLE 6 x 6 x . 59 TO 32 x 3/2 x . 42 14 CAMBER. LUGGED TO & BHD. UPPER DECK THROUGH BEAMS 10 x 31/2 x -40 BA.N.B.S. STEEL & BULKH ? . 26 PLATING. 6 RIVS B DIA KNEES 28/2 x . 47 & 21/2 LAP SHEERSTRAKE 72 . 68 TO . 46. IN 28/2 KNEES STIFFENERS TWO FRAME SPACES APART. HALF BEAMS IN WAY OF HATCHES 8 x 3/2 x - 39 B.A.N.B.S. KNEES 24x -47, 5, FR. 17 LAP. QUAD RIVETED END LAPS FOR 1/2 L. LINDER 10-0, 5 x 3 x 32 ANGLES, AND SEE PROFILE. " CASINGS 8 3/2 x 43 B.A. N.B.S. KNEES 24 x 47.5 78 R. 17 LAP TREBLE AT ENDS. CONNECTIONS 3 x 3 x 36. TWEEN DECK FRAMES ALTERNATE. 7 × 3/2 x 36 BA N. B. 5 (AT 8-6 SPAN) 9-0 CASING MAIN PR'S CARRIED UP AT HATCH ENDS SECOND DK. BET: OPENINGS .34 TO -30. STERN FRAME CAST STEEL. 2 no DECK STRINGER 63 x . 39 to 36 x 34 SECOND DECK .36 TO.30 DOUBLE RIV. END LAPS FOR 1/2 L. STEM BAR 94 x 2/2". DOUBLE RIV. END LAPS FOR 1/2 L. STRAKE BELOW SHEERSTRAKE DOUBLE RIVETED END LAPS. 9 x 3/2 x · 44 B.A. RUDDER AS PER SEPARATE PLAN. 72 × . 60 To . 46, STRINGER ANGLE 3/2 x 3/2 x . 42 TO . 34 SINGLE . . AT ENDS. WELDED TO DK TREBLE RIVETED END LAPS. DRAINAGE ARRANGED TO SURVEYORS 6 CAMBER WELDED PLATE COLLAR -----AT EACH FRAME ALTERNATE BEAMS GRNS IN 9 T. DK LUGGED TO & BHD. FRAMES AT PANTING SECOND DECK THROUGH BEAMS 12 x 3/2 x - 45 B.A. N.B.S. 3 x 3 x 30 WITH 4 4 R KNEES 36 x - 40 FL. 27 LAP HALF BEAMS IN WAY OF HATCHES 8 x 3 x · 48 B.A. N.B.S. AND AS PER BRNETS & DIA. DECK PLANS. CASINGS 8 . 3 x 51 BA N.B.S. STEEL 4 BULKHEAD .30. STIFFENERS TWO FRAME SPACES (60) APART 11 × 3/2 × 44 B.A. N.B.S. KNEES AT 15 [FRAMES 40 × 31 LAP x · 43 FL FOR STIFFE'S AFT OF MACHY SPACE SEE PROFILE. 9. RIVS, 78 DA. TO BEAM & FRAME DOUBLE STIFFENERS AT HATCH ENDS. KNEES AT 11 FRAMES IN AFTER HOLD AND DECK CONN. 3 x 3 x . 40. HALF BEAM KNEES AS PER SEPARATE TANK TOP CONN: 3/2 ×3 × · 40 PLAN AND DECK PLAN. BRACKETS TOP & BOTTOM AT HATCH ENDS. d= (682-43/2)+ 24-5/2 = 25-6 d FOR FRAMES - 23 FOR KNEES (RULE SPACING 31) MAIN FRAMES 12 . 4 . 4 . . 52 . GO N.B. 5 CHANNELS AT 30 SPACING. " 12 × 4 × 4 × ·55, -60 : - 27 - FORP 3/5 L. OWNERS EXTRAS HAVE BEEN ADDED TO SCANTLINGS. IN B. ROOM & PERMANENT BUNKERS. 12 . 4 . 4 . 58 . 60 . TANK TOP UNDER BOILERS 2/20 ABOVE RULE THICKNESS. SIDE SHELL .58. FOR 10% AFT RULE POS. OF COLL. BULKP 15 . 4 × 4 · 41, · 62 . WITH 30 SPACING TO 46 AT ENDS. FOR A DISTANCE OF 4 PT. AFT OF BOILERS TO STOKEHOLD BHD. AFT PEAK FRAMES 8" × 34 B.A. N.B.S. 24 APART (F. PEAK SEE PROFILE) TREBLE RIVETED END LAPS. ALL FLOORS, GIRDERS INTERCOSTALS FIG. 120 ABOVE RULE THKS RIVETING SIDE FRAMES TO SHELL 6/2 DIAS APART AT 30" SPACING. TANK MARGIN PLATES, CORNER BARS & FLOOR LUGS IN E & B SPACE SHELL 25% ABOVE END. FOR 10% AFT RULE POS OF COLL BULK'S 2/20 ABOVE RULE THICKNESS. THICKNESS = .58 IN WAY OF IN PEAK TANKS AND DEEP TANKS. PANTING FOR A DISTANCE AFT OF RULE Position of Collision Bulkhead Equal FLOORS EVERY FRAME UNDER ENGINES, BOILER BEARERS & FOR OF 35 L, TO 10% LENGTH OF VESSEL. ELSEWHERE EVERY 3RP FRAME, WITH INTERMEDIATE BRACKET FLOORS. PARTIAL FLOORS UNDER THRUST BLOCK. BOSS PLATING . 68. FLOORS 39, . 54 B.S. WITH STIFFENERS 3 . 3 . 39, 32 x 35 x . 49 t.S., 35 x 35 x . 59 8.5. TANK TOP CENTRE STRAKE 60 x . 50 TO . 42, . 678.5, SIER TREBLE RIV END LAPS FOR 2 L. DOUBLE AT ENDS. 6 × 2 CARGO BATTENS SHELL IN WAY OF FORE PEAK TANK TANK TOP PLATING . 43 TO . 39 . 51 ER. . 67 B.S. DOUBLE RIVETED END LAPS FOR 12 L. SINGLE AT ENDS. increased 25% above end thickness SPACED 9 APART WATERTIGHT FLOORS 49 54 B.S. WITH STIFFS 5 3 × 38 (SPACED 30 APART.) OVERFLOW NOT EXC 35 ABOVE TANK TOP = 58 IN LIEU OF STRINGER CONNECTIONS FRAMES 3/2 x 3/2 x 43. REVERSE FRAMES 3 x 3 x 43, 53 B.S, 5 x 5 x 43 UNDER ENGINE SPACE & THRUST, 5 x 5 x 58 UNDER BOILER BEARERS. SKETCH OF TANK GUSSET. INTERCOSTAL GIRDERS, LEACH SIDE . 37, . 41 E.R. . 568.5. GIRDER VERTICALS 3 x 3x . 39, . 54 B.S. . CONNS. TO SHELL 3/2 × 3 × 43, 3/2 × 3/2 × 48 85. BOT FLANGED 3/2 CENTRE GIRDER 42% ABOVE KEEL x . 53 To . 45, . 6685. . T. TOP 3 x 3 x · 43, 5x 5 x · 43 UNDER ENGINES & THRUST. MARGIN PLATE 39x 53, 69 B.S TREBLE RIVETED END LAPS. END LAPS TREBLE RIVETED. IN B.S. 3/2 x 3/2 x 5B. - ANGLE 3/2 × 3/2 × 53. 63 8.5. TOP BARS 3/2 × 3/2 × ·47 TO ·45 . 62 3.5. B.O.TS 43/2 x · 44. FL, · 54 ER. · 64 8.5. GUSSET -41 WTH 2#LANG BOTTOM BARS 4 . 4 x . 53 TO . 51 B.O.T. CONNS 5 x 5 x . 43, 12 RIVS % & WELDED GUSSETS 10/2 . 53 65 . 63 85 . WELDED TO B.O.T ELECTRODES TO COMPLY VERTICALS 34 x 3 x · 43 3/2 x · 58 N B.S. PLOORS & INTERM. FLOORS TO MARGIN 5x3x.43, 6x6x.43 IN PANTING AREA.

BOT CONNS TO MARGIN IN PANTING AREA. 6x6x.43, 16 RIVS. 8 & WELDED GUSSETS 16 & KNUCKLE OF MARGIN WITH PARA I TO 7 OF THE " 5 × 5 × - 43 UNDER ENGINE SA & THRUST BLOCK, RULES FOR ELECTRIC " 5 x5 x -58 " BOILER BEARERS. WELDING. 11 x 2/2 CEILING UNDER HATCHES EXTENDING 2-0 ALL DOUBLE LUGS FOR 2 SPACES ROUND AND OVER BILGES. 8 RIVS. 34 TO FLOORS. AT PANTING FRAMES. LUG FOR - 9 RIVETS 4 TO FLOORS. · CENTRE GROER FOR L 30 × 18 AT ENDS. 14, 8R TO FRAME AT 30 BOTTOM SHELL . 58 WITH 30 SPACING TO. 49 AT ENDS. KEEL 51/2 x . 77 FOR SL TO . 67 AT ENDS. TREBLE RIVETED END LAPS. BOTTOM FRAMES FROM 1/2 L. FORWARD TO COLLISION QUAD RIVETED END LAPS FOR 1/2 L. RIVETS IN BOTTOM FRAMES TO SHELL AND FLOORS SPACED 7DAS. TREBLE . . . AT ENDS WHERE . 76 AND UNDER BULKHEAD 5 . 5 . 43 ON SOLID FLOORS. 3/2 × 3/2 × 43 BACK BARS ON SKELETON FLOORS RIVETS IN END LAPS ABOVE 72 78 AT ENDS. BETWEEN FLANGES OF BRACKETS AND VERTICALS. THREE STRAKES NEXT TO KEEL TO BE 10% BRIVETS IN SEAMS AND FRAMES. ABOVE MIDSHIP THICKNESS FROM 1/2 L. FORWARD TO RULE POSITION RIVETS TO SHELL AND PLOORS 5/2 DIAS APART. OF COLLISION BULKHEAD, i.e. '64" AT 30" SPACING, '65" AT 27" SPACING. -6 34 R. 5/2 × 3 × · 37 B.A. AT 30 SPACING . 52 B.S. N.B.S. 6, 34 P; [0 0 V0 0 0 0 AIR HOLE. AIR HOLE 16 × 12 3FL7 6.32.37 B.A. AT30SP. 5285. 0 2,34 R. 13006. L 4.3/4R 6.3/4 R.

The Morth Eastern Marine Eng. Co., Ld

Contract No 2920.

Messrs. J.L. Thempson Vidoria, Ltd.

Yard Mo. 591.

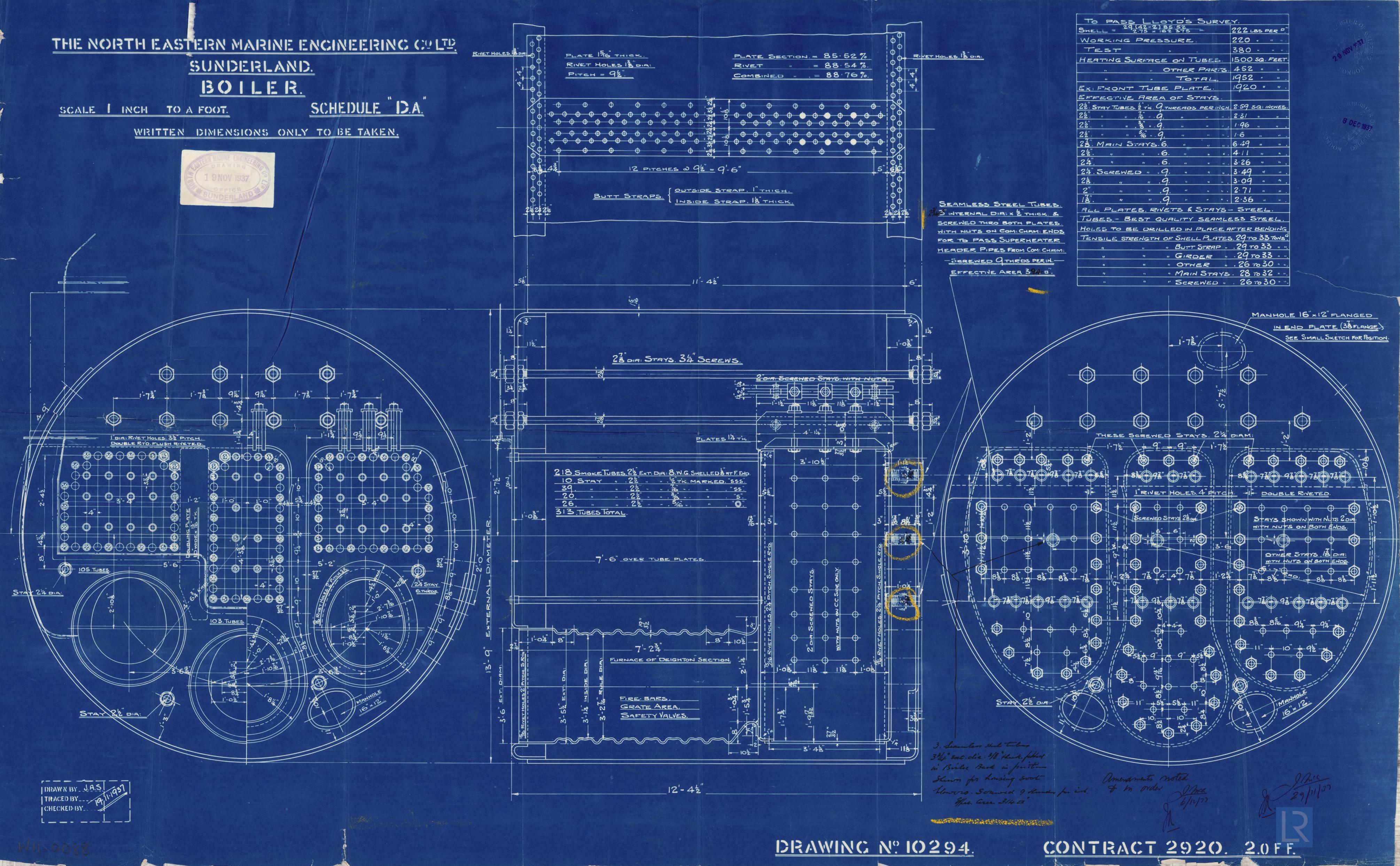
Amended Boiler Design



SUNDERLAND APT. NO. 32601

W11-0088

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The North Eastern Marine Eng. Co. Ltd.

Contract No. 2920

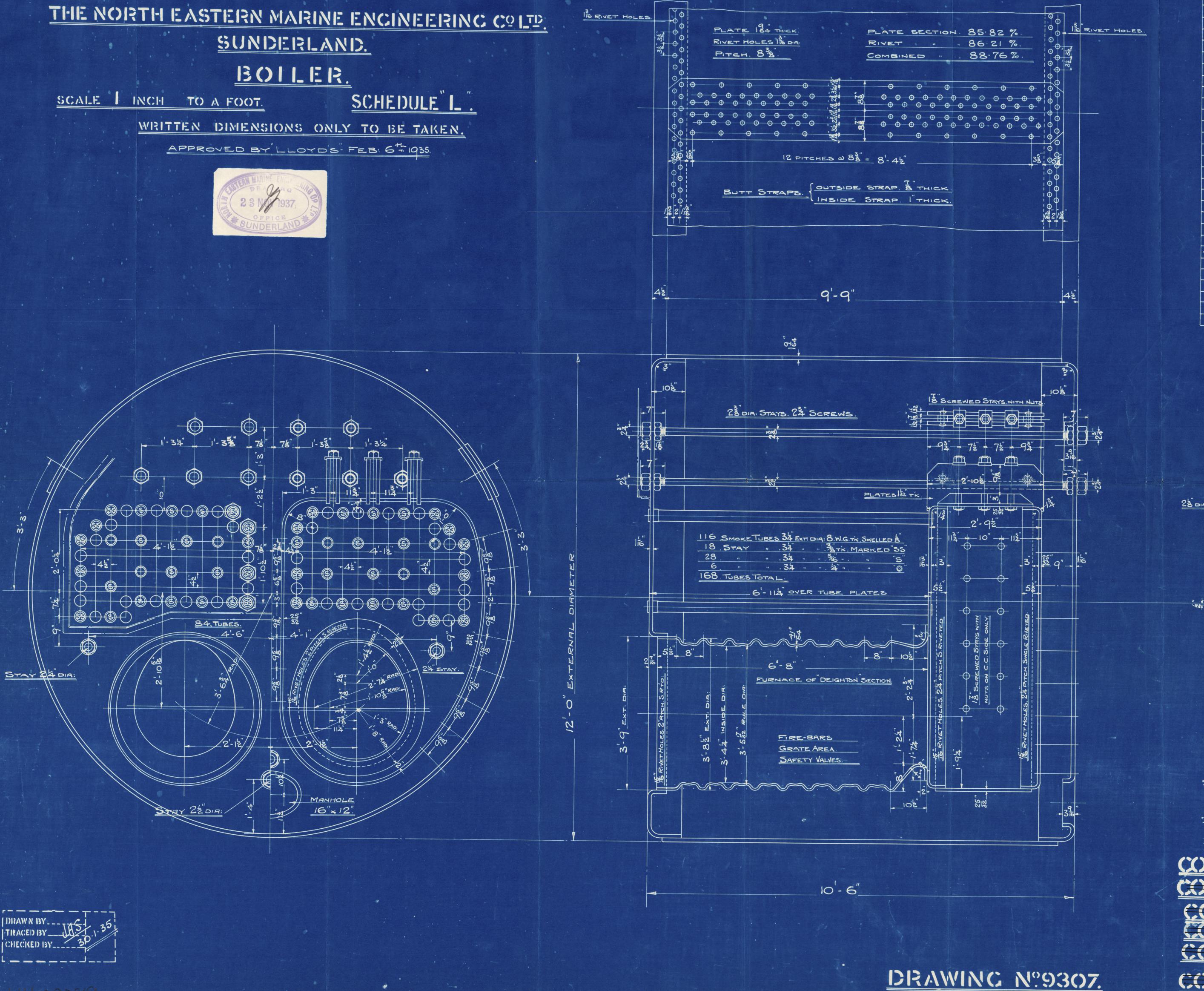
Messrs J. L. Thompson & Sons, Ld.

Yard No. 591.

AUXILIARY BOILER.

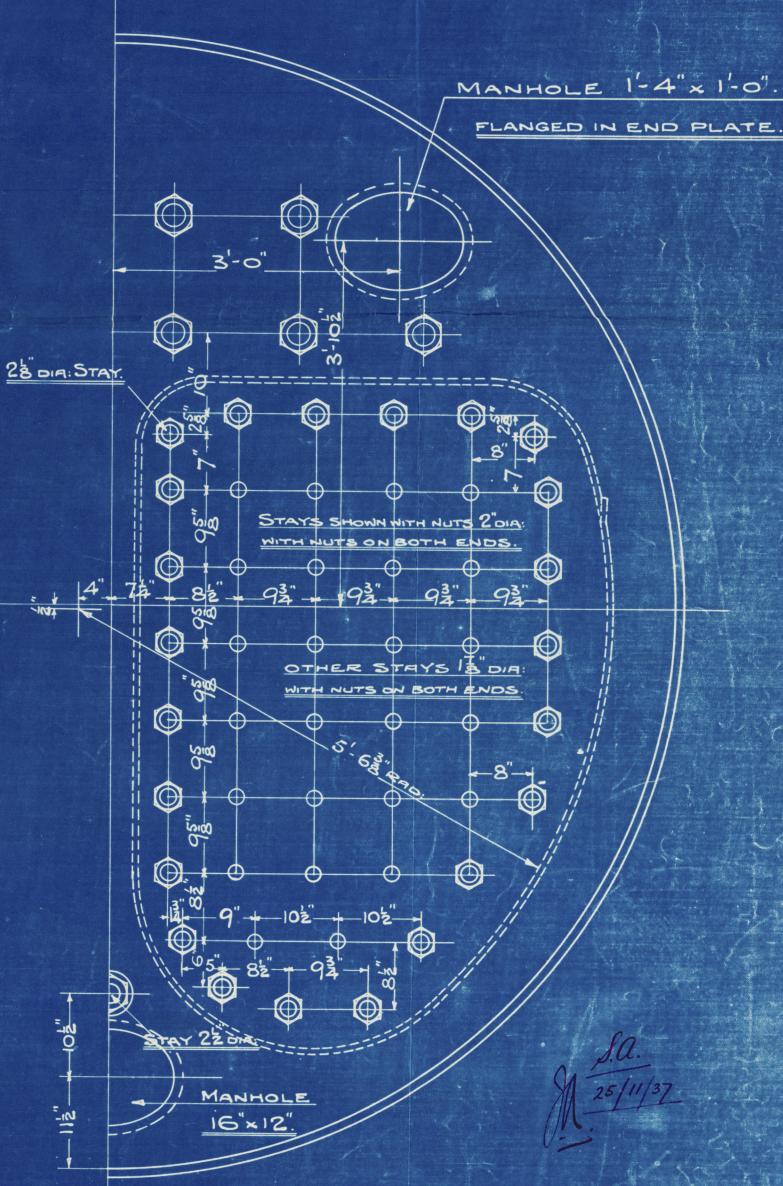
s.s. Bretwalda Sunderland Apr. No. 32601.





TO PASS LLOYD'S SURVEY.

SHELL = 29(36.5-2) 85.82 = 220.3 LBS PER. TEST HEATING SURFACE ON TUBES. 985 SQ. FEET. OTHER PARTS 270 " " " TOTAL. 1255 " " EX: FRONT TUBE PLATE. 1235 " " EFFECTIVE AREA OF STAYS. 34" STAY TUBES BTK. Q. THREADS PERINCH. 2.67 SQ: INCHES. 34. " ".4".9. " ".1.64 " 2% MAIN STAYS. 6 " " . 3.26 " " 28" SCREWED " .9. " " 3.09 " " " " . 2.36 " " ALL PLATES RIVETS & STAYS - STEEL. TUBES. BEST QUALITY SEAMLESS STEEL HOLES TO BE DRILLED IN PLACE AFTER BENDING TENSILE STRENGTH OF SHELLPLATES . 29 TO 33 TONS . " GIRDER " 28 TO 32 " " " "ALL OTHER " . 26 to 30 " " " MAIN STAYS . 28 TO 32 " " " "SCREWED " . 26 TO 30 " " RIVETS . 23 TONS " SHEAR



CONTRACT 2920 LOFF (AUXILIARY)
CONTRACT 2886 LOFF
CONTRACT 2878: LOFF
CONTRACT 2877: LOFF
CONTRACT 2822 LOFF

THE NORTH EASTERN MARINE, ENGINEERING CO. LTD.

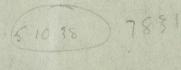
NEWGASTLE-ON-TYNE

Combustion Chamber Type Superheater for C 2920. 54.707. 220 lbs W.P.

for J. L. Thompson + Lons Il 591.

SUNDERLAND RPT. NO. 32601

Certificate ho



work Sunderland

WII-0087 Lloyd's Register Foundation

